PATENT COOPERATION TREATY



/ 1 1 / 2003

From the INTERNATIONAL SEARCHING AUTHORITY

To: MUETING, RAASCH & GEBHARDT, P.A. Attn. Mueting, Ann M.

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT

P.O. Box 581415	OR THE DECLARATION
Minneapolis, MN 55458-1415	
UNITED STATES OF AMERICA	(PCT Rule 44.1)
5/12/25 5/// Table 1	
1	
	Code of mailing
₂₀ .	Date of mailing (day/month/year) 09/04/2003
<u> </u>	(day/month/year) 08/04/2003
Applicant's or agent's file reference	
150.01140201	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No.	International filing date
PCT/US 02/40413	(day/month/year) 17/12/2002
Applicant	
Applicant	
MICRON TECHNOLOGY, INC.	
1. X The applicant is hereby notified that the International Search	n Report has been established and is transmitted herewith.
Filing of amondments and statement under Article 19:	
The applicant is entitled, if he so wishes, to amend the claim	ns of the International Application (see Rule 46):
When? The time limit for filing such amendments is normal	ally 2 months from the date of transmittal of the
International Search Report; however, for more de	etails, see the notes on the accompanying sheet.
Where? Directly to the International Bureau of WIPO	
34, chemin des Colombettes	
1211 Geneva 20, Switzerland Fascimile No.: (41-22) 740.14.3	5
For more detailed instructions, see the notes on the according	
2. The applicant is hereby notified that no International Search	h Report will be established and that the declaration under
Article 17(2)(a) to that effect is transmitted herewith.	
3. With regard to the protest against payment of (an) additi	
the protest together with the decision thereon has been	en transmitted to the International Bureau together with the
applicant's request to forward the texts of both the pro	otest and the decision thereon to the designated Offices.
no decision has been made yet on the protest; the ap	plicant will be notified as soon as a decision is made.
The available combined of the following:	
4. Further action(s): The applicant is reminded of the following:	and the state of t
Shortly after 18 months from the priority date, the international a lifthe applicant wishes to avoid or postpone publication, a notice	s of withdrawal of the international application, of of the
priority claim, must reach the International Bureau as provided	in Rules 90bis.1 and 90bis.3, respectively, before the
completion of the technical preparations for international public	ation.
Within 19 months from the priority date, a demand for internatio wishes to postpone the entry into the national phase until 30 m	nal preliminary examination must be filed if the applicant control the priority date (in some Offices even later).
Within 20 months from the priority date, the applicant must perform before all designated Offices which have not been elected in the second sec	ne demand of in a later election within 19 months from the
priority date or could not be elected because they are not bour	nd by Chapter II.

Name and mailing address	of the	International Searching	Authority
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European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Gennaro Cappiello

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international politication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been his filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- (Where originally there were 15 claims and after amendment of all claims there are 11): *Claims 1 to 15 replaced by amended claims 1 to 11.*
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]: "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added, all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rulle 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as fied.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		f Transmittal of International Search Report 20) as well as, where applicable, item 5 below.
150.01140201	ACTION	
nternational application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 02/40413	17/12/2002	21/12/2001
Applicant		
MICDON TECHNOLOGY INC		
MICRON TECHNOLOGY, INC.		
This International Search Report has be according to Article 18. A copy is being	en prepared by this International Searching Aut transmitted to the International Bureau.	nority and is transmitted to the applicant
This International Search Report consis	ts of a total ofsheets. by a copy of each prior art document cited in this	report.
Basis of the report		
 With regard to the language, the language in which it was filed, u 	e international search was carried out on the bandless otherwise indicated under this item.	sis of the international application in the
the international search Authority (Rule 23.1(b))	was carried out on the basis of a translation of t	he international application furnished to this
b. With regard to any nucleotide	and/or amino acid sequence disclosed in the in	nternational application, the international search
was carried out on the basis of the contained in the internal	tional application in written form.	
	ternational application in computer readable for	n.
<u></u>	to this Authority in written form.	
furnished subsequently	to this Authority in computer readble form.	
	ubsequently furnished written sequence listing of as filed has been furnished.	loes not go beyond the disclosure in the
• • • • • • • • • • • • • • • • • • • •		s identical to the written sequence listing has been
2. X Certain claims were fo	ound unsearchable (See Box I).	
3. Unity of invention is la	acking (see Box II).	
4. With regard to the title,		
	submitted by the applicant.	
the text has been estab	lished by this Authority to read as follows:	
5. With regard to the abstract,		
	submitted by the applicant.	
the text has been estab	lished, according to Rule 38.2(b), by this Author the date of mailing of this international search re	ity as it appears in Box III. The applicant may, port, submit comments to this Authority.
6. The figure of the drawings to be pu		
as suggested by the ap	plicant.	X None of the figures.
because the applicant t	ailed to suggest a figure.	
because this figure bett	er characterizes the invention.	

International Application No PCT/US 02/40413

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H01L21/321 C09G1/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, CHEM ABS Data

	NTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
category °	Citation of document, with indication, where appropriate, of the relevant passages	
(WO 01 44396 A (RODEL HOLDINGS INC)	37,46,
	21 June 2001 (2001-06-21)	55,57,58
	the whole document	
Χ	EP 1 111 083 A (INFINEON TECHNOLOGIES AG)	37,38,
^	27 June 2001 (2001-06-27)	46,47,
		55-57
	column 5 -column 7	1
X	EP 1 156 091 A (SIEMENS AG ;INFINEON	37,38,
^	TECHNOLOGIES AG (DE))	46,47,
	21 November 2001 (2001-11-21) column 4 -column 5	55-57
χ	US 5 935 871 A (WATTS DAVID ET AL)	37,46,
^	10 August 1999 (1999-08-10)	55,57
	column 4	
		1
	_/	[

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Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '8' document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
26 March 2003	08/04/2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NI. – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.	Authorized officer Szarowski, A
Fax: (+31-70) 340-3016	SZATUWSKI, A

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International Application No
PCT/US 02/40413

C.(Continu	stion) DOCUMENTS CONSIDERED TO BE RELEVANT	I Determent to a later Ma
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
х	US 2001/006031 A1 (ITAKURA TETSUYUKI ET AL) 5 July 2001 (2001-07-05) the whole document	37,46, 55,57
х	WO 00 77107 A (UNGER EUGEN ;BEITEL GERHARD (DE); SAENGER ANNETTE (DE); INFINEON T) 21 December 2000 (2000-12-21) the whole document	37,38, 46,47
X	EP 1 123 956 A (JSR CORP) 16 August 2001 (2001-08-16) the whole document	37,38, 46,47
Ρ,Χ	WO 02 084718 A (CABOT MICROELECTRONICS CORP) 24 October 2002 (2002-10-24) the whole document	37,46, 55,57,58
E	US 6 527 622 B1 (DE REGE FRANCESCO M ET AL) 4 March 2003 (2003-03-04)	37,38, 46,47, 55-58
	the whole document	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-36,39-45,48-54

In view of the large number, the overlapping scope and also the functional wording of the claims presently on file, which render it difficult, if not impossible, to determine the matter for which protection is sought, the present application fails to comply with the clarity and conciseness requirements of Article 6 PCT (see also Rule 6.1(a) PCT) to such an extent that a meaningful search is impossible.

Consequently, the search has been carried out for those parts of the application which do appear to be clear (and concise), namely claims 37.38.46.47.55-58.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

International application No. PCT/US 02/40413

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Ctaims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. X Claims Nos.: 1-36,39-45,48-54 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: See FURTHER INFORMATION sheet PCT/ISA/210
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this International application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet (1)) (July 1998)

mail: to m

Information on patent family members

International Application No
PCT/US 02/40413

						02/ 40415
Patent document cited in search report	t	Publication date		Patent family member(s)		Publication date
WO 0144396	A	21-06-2001	EP EP WO WO US	1252247 1252248 0144395 0144396 2002083650	A1 A1 A1 A1	30-10-2002 30-10-2002 21-06-2001 21-06-2001 04-07-2002 09-01-2003
			US US US US	2003006396 2002111027 6379406 2002039839	A1 B1	15-08-2002 30-04-2002 04-04-2002
EP 1111083	A	27-06-2001	DE EP US	19959711 1111083 2002008265	A2	21-06-2001 27-06-2001 24-01-2002
EP 1156091	A	21-11-2001	DE CN EP JP US	10024874 1324906 1156091 2002033298 2002017063	A A1 A	29-11-2001 05-12-2001 21-11-2001 31-01-2002 14-02-2002
US 5935871	Α	10-08-1999	NON	E		
US 20010060	31 A1	05-07-2001	JP	2001187877	Α	10-07-2001
WO 0077107	Α	21-12-2000	DE WO US	19927286 0077107 2002081853	' A1	18-01-2001 21-12-2000 27-06-2002
EP 1123956	Α	16-08-2001	EP JP US	1123956 2002080827 2001039766	' A	16-08-2001 22-03-2002 15-11-2001
WO 02084718	Α	24-10-2002	WO US	02084718 2002151177		24-10-2002 17-10-2002
US 6527622	B1	04-03-2003	NON			